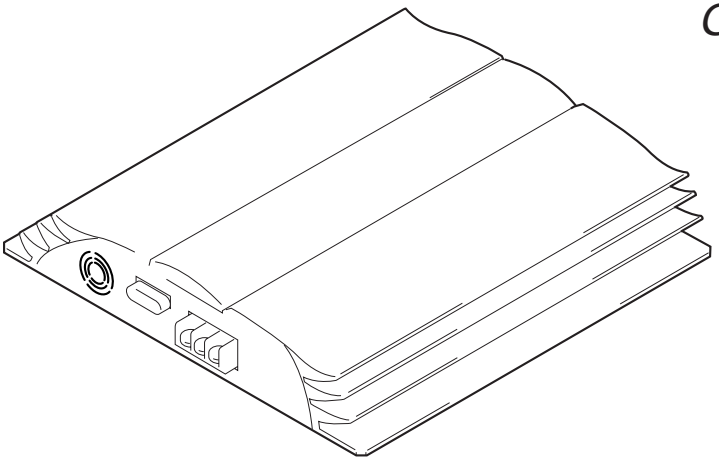
# XM-754HX

# SERVICE MANUAL

**Ver 1.1 2001. 08**

*US Model*
*Canadian Model*
*AEP Model*
*UK Model*
*E Model*



## SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US model)
POWER OUTPUT AND TOTAL HARMONIC DISTORTION
75 watts per channel minimum continuous average power into 4 ohms, both channels driven from 20 Hz to 20 kHz with no more than 0.04% total harmonic distortion per Car Audio Ad Hoc Committee standards.

**Other Specifications**

Circuit system: OTL (output transformerless) circuit
Pulse power supply
Inputs: RCA pin jacks
High level input connector
Outputs: Speaker terminals
Speaker impedance
1* – 8 Ω (stereo)
2* – 8 Ω (when used as a bridging amplifier)
Maximum outputs (HI-CURRENT/HI-VOLTAGE)
Four speakers :
90/170 W x 4 (at 4 Ω)
Three speakers :
90 W x 2 + 250W x 1 / 170W x 2 + 400W x 1 (at 4 Ω)
Two speakers :
250/400 W x 2 (at 4 Ω)
Rated outputs (HI-CURRENT/HI-VOLTAGE) (supply voltage at 14.4 V)
Four speakers :
35/75 W x 4 (20 Hz – 20 kHz, 0.04% THD, at 4 Ω)
50/100 W x 4 (20 Hz – 20 kHz, 0.1% THD, at 2 Ω)
Two speakers :
100/200 W x2 (20 Hz – 20 kHz, 0.1% THD, at 4 Ω)
Frequency response
5 Hz – 50 kHz ($^{+0.5}_{-3}$ dB)
Harmonic distortion
0.005% or less (at lkHz, 4 Ω)
Input level adjustment range
0.2 – 4.0 V (RCA pin jacks)
0.4 – 8.0 V (High level input)
High-pass filter: 50 – 200 Hz, –12 dB/oct
Low-pass filter: 50 – 200 Hz, –12 dB/oct
Low boost: 0 – 10 dB (40 Hz)
Power requirements: 12 V DC car battery (negative ground)
Power supply voltage
10.5 – 16 V
Current drain: at rated output : 40 A
(4Ω HI-VOLTAGE mode)
Remote input : 1.5 mA
Dimensions: Approx. 258 x 50 x 320 mm (w/h/d)
(10 1/4 x 2 x 12 5/8 in.) not incl. projecting parts and controls
Mass: Approx. 3.5 kg (7 lb. 11 oz.) not incl. accessories

Supplied accessories
Mounting screws (4),
Terminal cap (1)

Design and specifications are subject to change without notice.

* HI-CURRENT only

## STEREO POWER AMPLIFIER

**9-925-796-12**
2001H0400-1
© 2001. 8

**Sony Corporation**
**e Vehicle Company**
**Shinagawa Tec Service Manual Production Group**

SONY®

# Features

- Maximum power output of 170 watts per channel (at 4 Ω).
- This unit can be used as a bridging amplifier with a maximum output of 400 watts.
- Direct connection can be made with the speaker output of your car audio if it is not equipped with a line output (High level input connection).
- Built-in variable LPF (Low-pass filter), HPF (High-pass filter) and low boost circuit.
- Possible to switch between HI-CURRENT mode (1-2 Ω) and HI-VOLTAGE mode (2 - 4 Ω).
- Protection circuit and indicator provided.
- Pulse power supply* for stable, regulated output power.
- New circuit which removes the source resistance from the final MOS FET output stage, and drives the speaker directly.

** **Pulse power supply***

*This unit has a built-in power regulator which converts the power supplied by the DC 12 V car battery into high speed pulses using a semiconductor switch. These pulses are stepped up by the built-in pulse transformer and separated into both positive and negative power supplies before being converted into direct current again. This is to regulate fluctuating voltage from the car battery. This light weight power supply system provides a highly efficient power supply with a low impedance output.*

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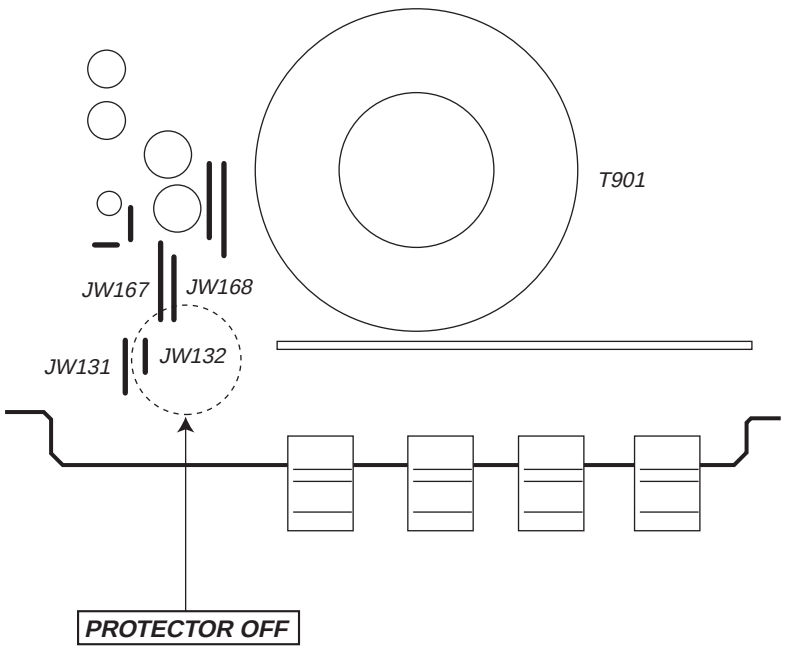
# SECTION 1
# SERVICING NOTE

### CANCELLING THE PROTECTOR DURING SERVICING

Cut JW132 on the amplifier board to cancel the protector.
After servicing always be sure to return JW132 to its original state.



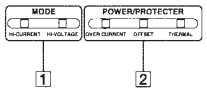
# SECTION 2
# GENERAL

This section is extracted from instruction manual.

## Location and Function of Controls

**1 MODE indicator**
Indicates HI-CURRENT mode or HI-VOLTAGE mode.

**2 POWER/PROTECTOR indicator**
- OVER CURRENT lights up in green during normal operation. The color will change from green to amber when receiving a powerful signal.
- OFF SET lights up green during normal operation. The color will change from green to amber when the voltage going out to the Speaker terminal or the Pin jack is too high.
- THERMAL lights up in green during normal operation. The color will change from green to amber when the temperature rises to an unsafe level. The color will return to green when the temperature returns to normal.

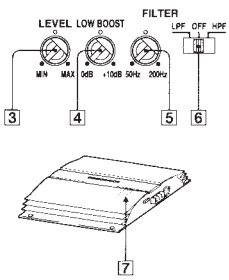



**3 LEVEL adjustment control**
The input level can be adjusted with this control when using source equipment made by other manufacturers. Turn it to MAX when the output level of the car audio seems low.

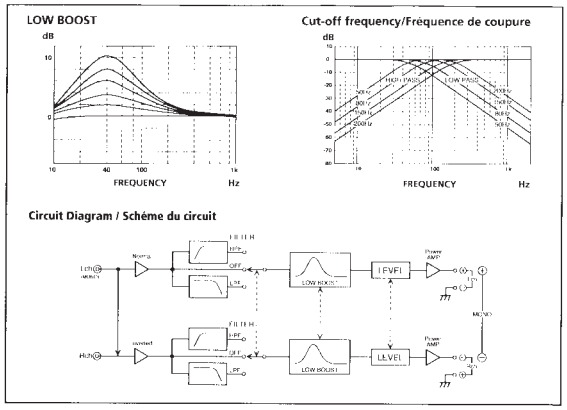
**4 LOW BOOST level control**
Turn this control to boost the frequencies around 40 Hz to a maximum of 10 dB.

**5 Cut-off frequency adjustment control**
Sets the cut-off frequency (50–200 Hz) for the low-pass or high-pass filters.

**6 FILTER selector switch**
When the switch is in the LPF position, the filter is set to low-pass. When in the HPF position, the filter is set to high-pass.




**7 HI-CURRENT/HI-VOLTAGE mode switch (located on the bottom of the unit)**
Remove the bottom cover to access the switch.
- In HI-CURRENT mode the speaker impedance is 1 to 2 Ω. This mode sends a signal via parallel circuits for a powerful sound.
- In HI-VOLTAGE mode the speaker impedance is 2 to 4 Ω. In this mode you can enjoy clear sound with the dynamic range.

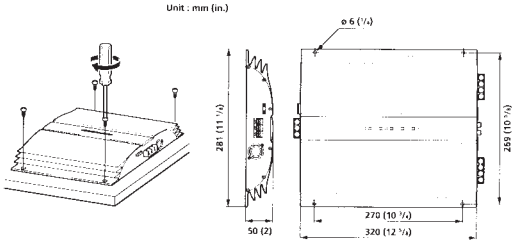



## Installation

**Before Installation**
- Mount the unit either inside the trunk or under a seat.
- Choose the mounting location carefully so the unit will not interfere with the normal movements of the driver and it will not be exposed to direct sunlight or hot air from the heater.
- Do not install the unit under the floor carpet, where the heat dissipation from the unit will be considerably impaired.

First, place the unit where you plan to install it, and mark the positions of the four screw holes on the surface of the mounting board (not supplied). Then drill the holes approximately 3 millimeters (mm) in diameter and mount the unit onto the board with the supplied mounting screws. The supplied mounting screws are 15 mm long. Therefore, make sure that the mounting board is thicker than 15 mm.

Unit : mm (in.)

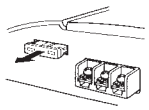



# Connections

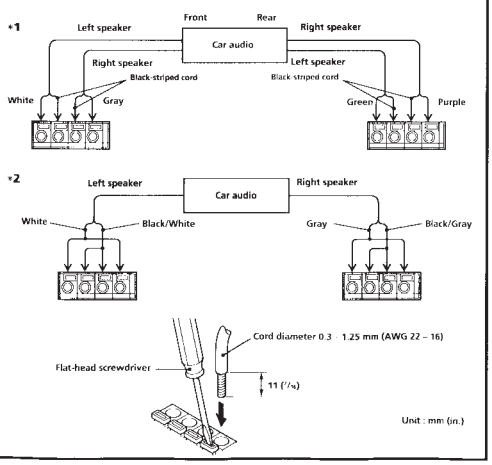
## Precautions
- This unit is designed for negative ground 12 V DC operation only.
- Use speakers with suitable impedance.
  — HI-CURRENT mode: 1 to 2 Ω.
  — HI-VOLTAGE mode: 2 to 4 Ω.
- Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the unit. Doing so may damage the active speakers.
- Avoid installing the unit where:
  it would be subject to high temperatures such as from direct sunlight or hot air from the heater
  it would be exposed to rain or moisture
  it would be subject to dust or dirt.
- If your car is parked in direct sunlight and there is a considerable rise in temperature inside the car, allow the unit to cool down before use.
- When installing the unit horizontally, be sure not to cover the fins with the floor carpet etc.
- If this unit is placed too close to the car radio, interference may occur. In this case, relocate the amplifier away from the car radio.
- If no power is being supplied to the cassette player or tuner, check the connections.
- This power amplifier employs a protection circuit* to protect the transistors and speakers if the amplifier malfunctions. Do not attempt to test the protection circuits by covering the heat sink or connecting improper loads.
- Do not use the unit on a weak battery as its optimum performance depends on a good power supply.
- For safety reasons, keep your car audio volume moderate so that you can still hear sounds outside your car.

## Fuse Replacement
If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.

**Warning**
When replacing the fuse, be sure to use one matching the amperage stated above the fuse holder. Never use a fuse with an amperage rating exceeding the one supplied with the unit as this could damage the unit.

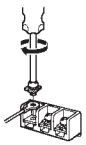


**Speaker cord direct in connector**



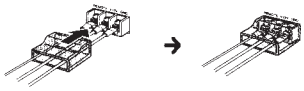

## Caution
- Before making any connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Be sure to use speakers with an adequate power rating. If you use small capacity speakers, they may be damaged.
- Do not connect the ⊖ terminal of the speaker system to the car chassis, and do not connect the ⊖ terminal of the right speaker with that of the left speaker.
- Install the input and output cords away from the power supply lead as running them close together can generate some interference noise.
- This unit is a high powered amplifier. Therefore, it may not perform to its full potential if used with the speaker cords supplied with the car.
- If your car is equipped with a computer system for navigation or some other purpose, do not remove the ground wire from the car battery. If you disconnect the wire, the computer memory may be erased. To avoid short circuits when making connections, disconnect the +12 V power supply lead until all the other leads have been connected.

**Make the terminal connections as illustrated below.**



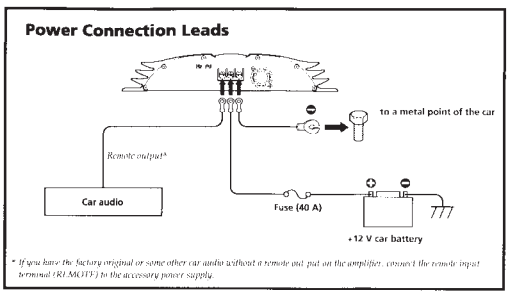
***Note***
*Tighten the screws firmly, but be careful not to apply too much force* as doing so may damage the screws.*

** The torque value should be less than 1 N•m.*



**Pass the leads through the cap, connect the leads, then cover the terminals with the cap.**

**Power Connection Leads**

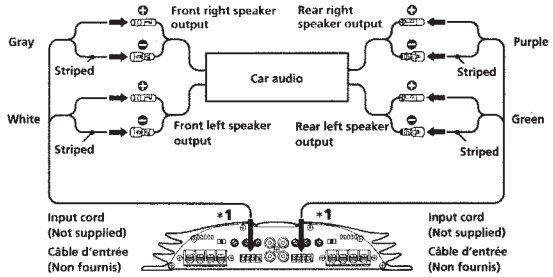



** If you have the factory original or some other car audio without a remote out put on the amplifier, connect the remote input terminal (REMOTE) to the accessory power supply.*

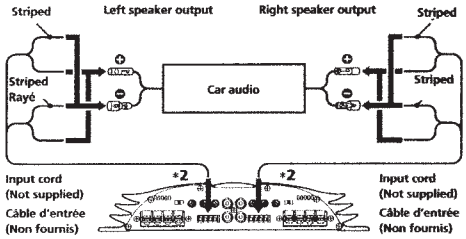
***Notes on the power supply***
- *Connect the +12 V power supply lead only after all the other leads have been connected.*
- ***Be sure to connect the ground lead of the unit securely to a metal point of the car. A loose connection may cause a malfunction of the amplifier.***
- *Be sure to connect the remote control lead of the car audio to the remote terminal.*
- *When using a car audio without a remote output on the amplifier, connect the remote input terminal (REMOTE) to the accessory power supply.*
- *Use the power supply lead with a fuse attached (40 A).*
- *Place the fuse in the power supply lead as close as possible to the car battery.*
- *Make sure that the leads to be connected to the **+12 V** and **GND** terminals of this unit are larger than 30 Gauge (AWG-30) or have a sectional area of more than 5 mm².*
- *When using the optional RC-4s power amplifier connecting cord, consult that manual for proper use.*

## Input Connections

### High Level Input Connection (with Speaker Connection 1, 2 or 4) — A

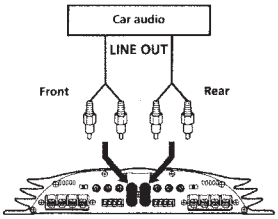



### High Level Input Connection (with Speaker Connection 3) — B

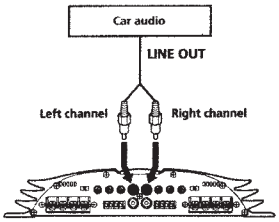



**Note**
*Make sure that the right speaker output from the car audio is connected to the connector marked "REAR" on the unit.*

### Line Input Connection (with Speaker Connection 1, 2 or 4) — C




### Line Input Connection (with Speaker Connection 3) — D

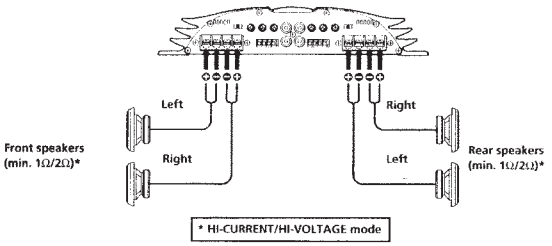



**Note**
*Make sure that the line output from the car audio is connected to the jack marked "L (MONO)" on the unit.*

## Speaker Connections

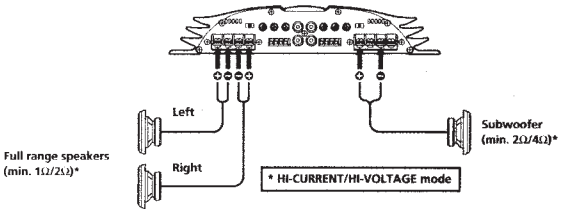
### 4-Speaker System (with Input Connection A or C) — 1

*For details on the settings of switches and controls, refer to "Location and Function of Controls."*




### 3-Speaker System (with Input Connection A or C) — 2

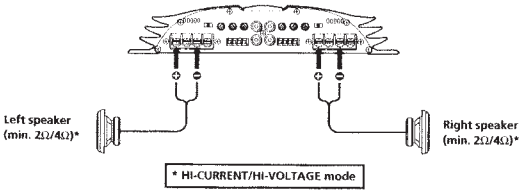
*For details on the settings of switches and controls, refer to "Location and Function of Controls."*




**Notes**
- *In this system, the volume of the subwoofer will be controlled by the car audio fader control.*
- *In this system, the output signals to the subwoofer are a combination of both the REAR L and R INPUT jacks or the REAR high level input connector signals.*

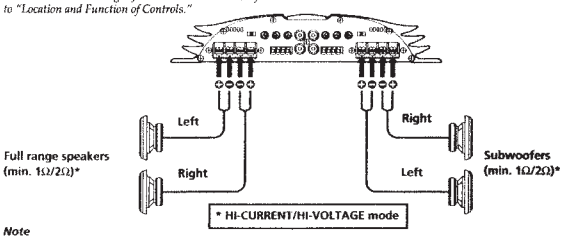
### 2-Speaker System (with Input Connection B or D) — 3

*For details on the settings of switches and controls, refer to "Location and Function of Controls."*




### 2-Way System (with Input Connection A or C) — 4

*For details on the settings of switches and controls, refer to "Location and Function of Controls."*

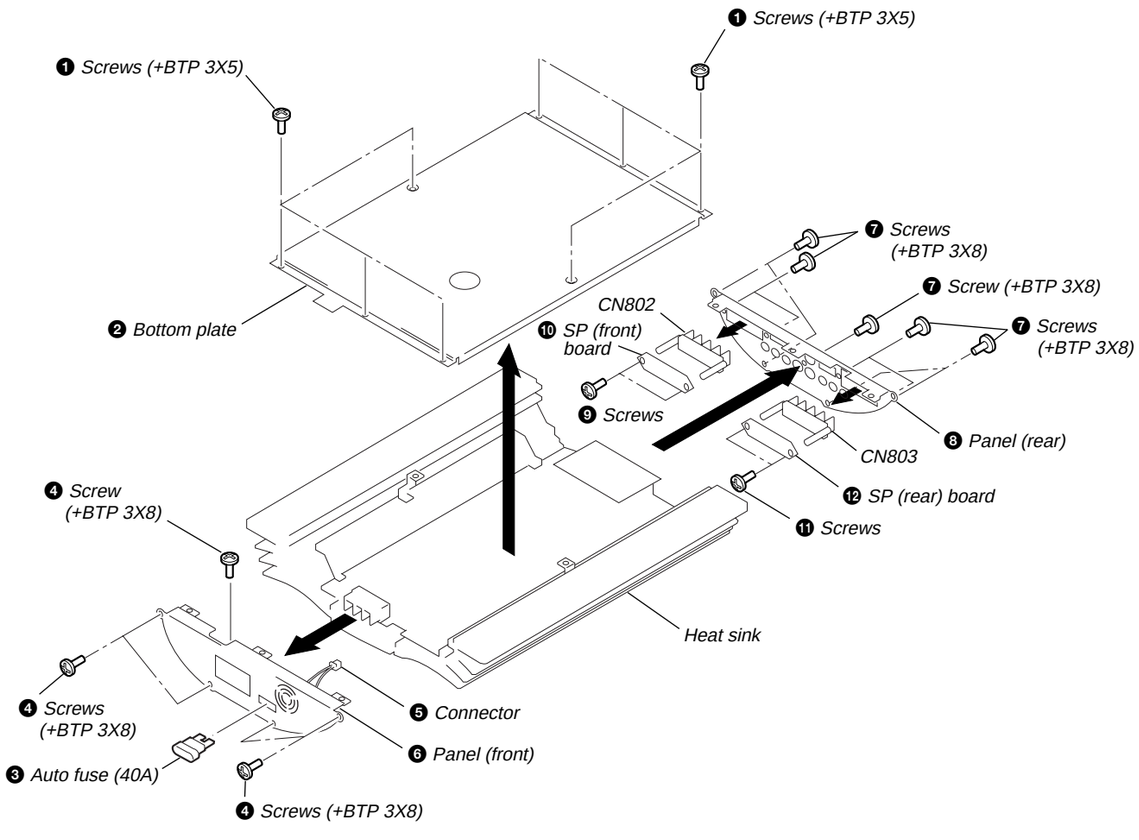



**Note**
*In this system, the volume of the subwoofers will be controlled by the car audio fader control.*

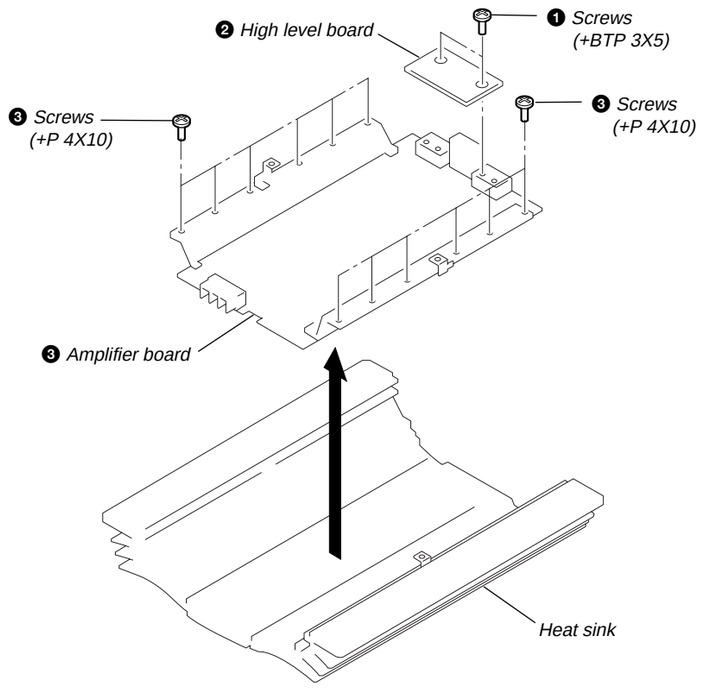
# SECTION 3
# DISASSEMBLY

**Note :** Follow the disassembly procedure in the numerical order given.

## 3-1. BOTTOM PLATE, PANEL (FRONT), PANEL (REAR), SP (FRONT) BOARD, SP (REAR) BOARD REMOVAL




## 3-2. AMPLIFIER BOARD REMOVAL






# SECTION 4
# ELECTRICAL ADJUSTMENT

**Bias Adjustment**

**Procedure :**

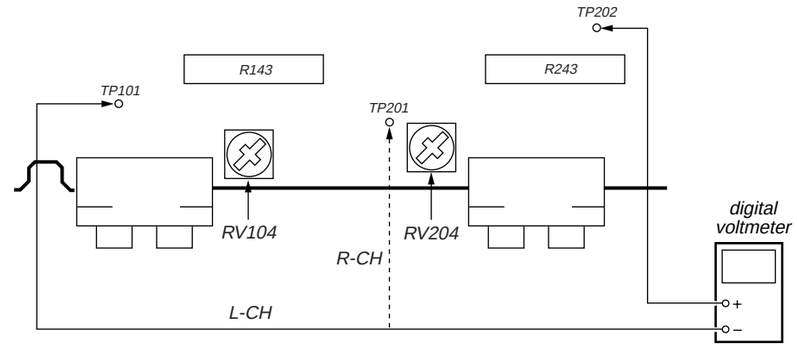
1. Rotare semi-fixed resistors RV104, RV204, RV304 and RV404 fully counterclockwise as viewed from the component side
2. No signal is entered, as input signal.
3. Apply the source voltage 14.4V between +12V, REMOTE and GND terminals.
4. Adjust the RV104 (FRONT L-CH), RV204 (FRONT R-CH), RV304 (REAR L-CH) and RV404 (REAR R-CH) so that the digital voltmeter reading becomes the adjustment limits below.

**Adjustment Limits** : 3 ± 0.3mV

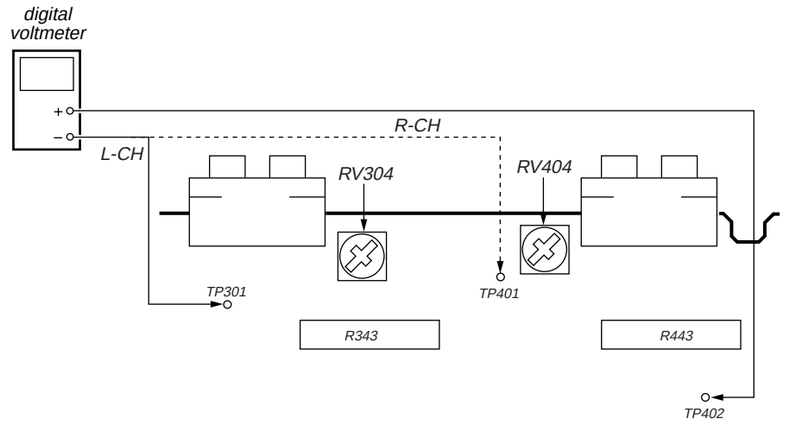
**Adjustment Location :**

**[AMPLIFIER BOARD]** (Component side)

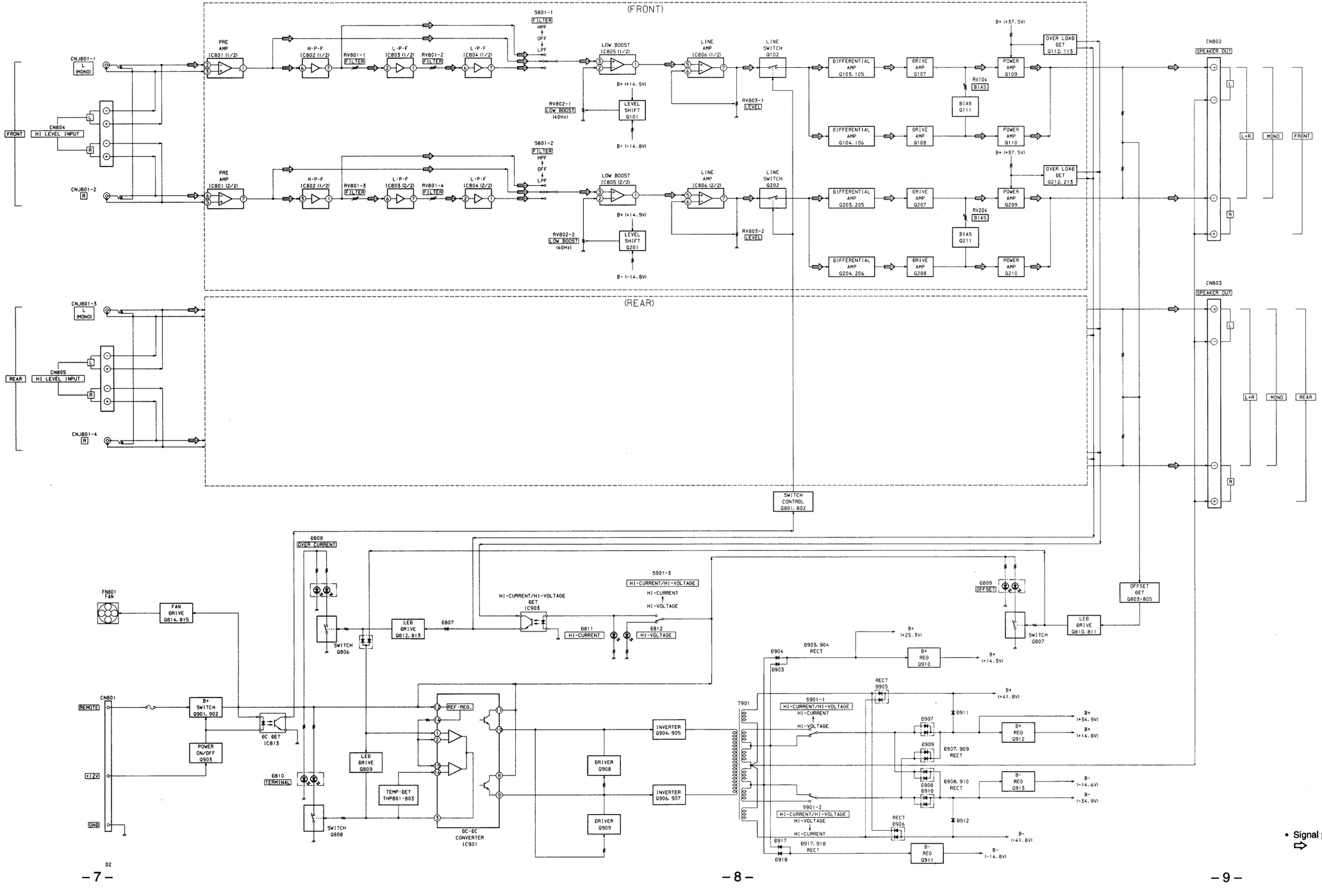
**– FRONT –**




**– REAR –**



## 5-1. BLOCK DIAGRAM




• Signal path. ⇨

## ● WAVEFORMS

① 13Vp-p, 33 µsec

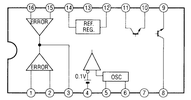
② 12Vp-p, 33 µsec

③ 29Vp-p, 33 µsec

④ 86Vp-p, 33 µsec

## ● IC BLOCK DIAGRAM

**IC901 µPC494GS**



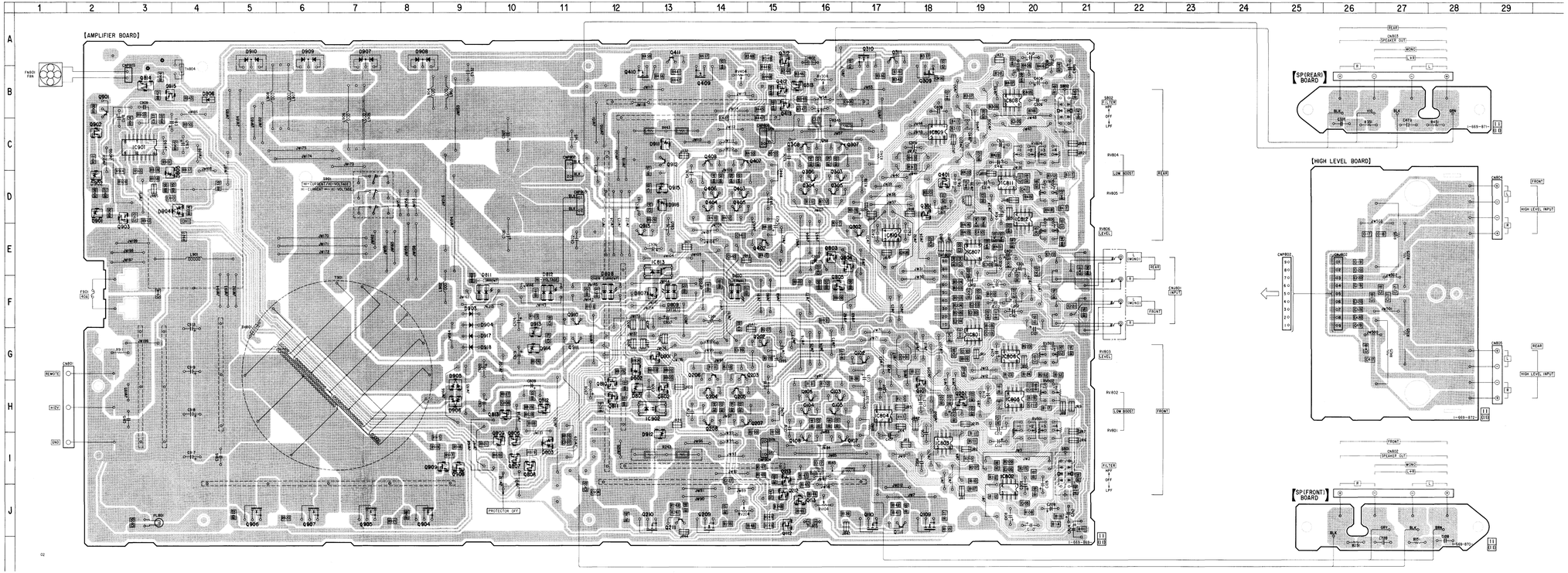

**Note on Printed Wiring Boards:**
**Note:**
- ⟷ : parts extracted from the component side.
- : Pattern from the side which enables seeing.

## ● SEMICONDUCTOR LOCATION

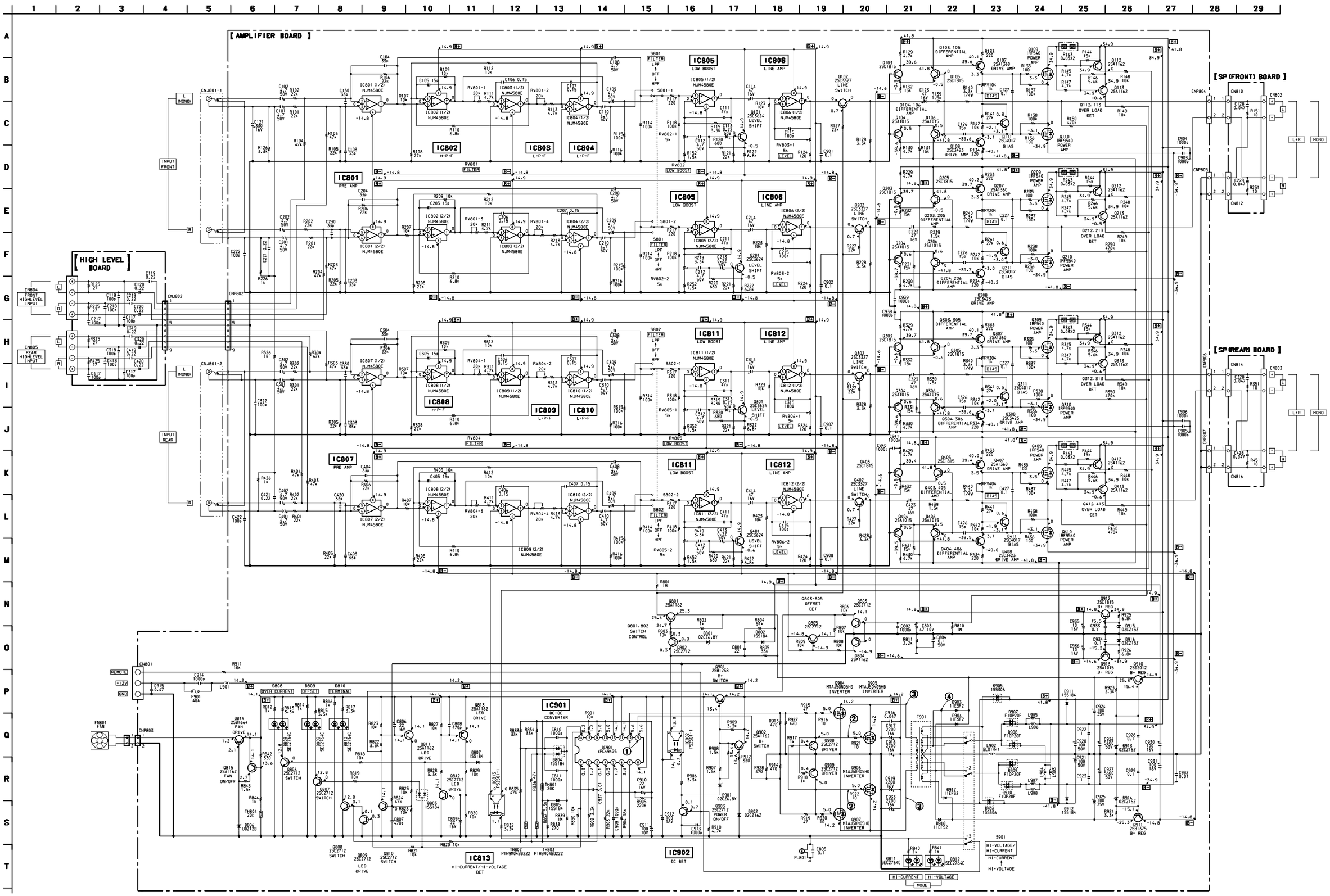
| Ref. No. | Location | Ref. No. | Location | Ref. No. | Location |
|---|---|---|---|---|---|
| D801 | H-12 | IC813 | E-13 | Q401 | D-18 |
| D802 | G-12 | IC901 | C-3 | | |
| D803 | I-11 | IC902 | H-13 | Q402 | E-15 |
| D804 | D-4 | | | Q403 | D-14 |
| D805 | D-4 | | | Q404 | D-14 |
| | | Q101 | H-18 | Q405 | D-14 |
| D806 | B-4 | Q102 | G-16 | Q406 | D-14 |
| D807 | F-12 | Q103 | H-16 | | |
| D808 | F-12 | Q104 | H-16 | Q407 | C-14 |
| D809 | F-13 | Q105 | H-16 | Q408 | C-14 |
| D810 | F-14 | | | Q409 | B-14 |
| | | Q106 | H-16 | Q410 | B-12 |
| D811 | F-11 | Q107 | I-16 | Q411 | A-13 |
| D812 | F-9 | Q108 | I-15 | | |
| D901 | D-2 | Q109 | J-18 | Q412 | B-15 |
| D902 | D-2 | Q110 | J-17 | Q413 | B-15 |
| D903 | F-9 | | | Q801 | G-13 |
| | | Q111 | J-17 | Q802 | H-13 |
| D904 | F-9 | Q112 | J-15 | Q803 | E-16 |
| D905 | G-9 | Q113 | J-15 | | |
| D906 | H-9 | Q201 | H-18 | Q804 | E-16 |
| D907 | A-7 | Q202 | G-15 | Q805 | F-16 |
| D908 | A-8 | | | Q806 | I-10 |
| | | Q203 | G-14 | Q807 | I-10 |
| D909 | A-6 | Q204 | H-14 | Q808 | I-10 |
| D910 | A-5 | Q205 | H-14 | | |
| D911 | C-13 | Q206 | G-14 | Q809 | I-10 |
| D912 | H-13 | Q207 | H-14 | Q810 | H-12 |
| D913 | F-10 | | | Q811 | H-12 |
| | | Q208 | H-14 | Q812 | H-10 |
| D914 | G-10 | Q209 | J-14 | Q813 | H-10 |
| D915 | D-13 | Q210 | J-12 | | |
| D916 | D-13 | Q211 | J-13 | Q814 | B-3 |
| D917 | G-9 | Q212 | J-15 | Q815 | B-3 |
| D918 | G-9 | | | Q901 | B-2 |
| | | Q213 | I-15 | Q902 | C-2 |
| | | Q301 | D-18 | Q903 | D-3 |
| IC801 | G-19 | Q302 | E-16 | | |
| IC802 | I-19 | Q303 | D-16 | Q904 | J-8 |
| IC803 | I-18 | Q304 | D-15 | Q905 | J-7 |
| IC804 | H-17 | | | Q906 | J-5 |
| IC805 | H-19 | Q305 | D-16 | Q907 | J-6 |
| | | Q306 | D-16 | Q908 | I-9 |
| IC806 | G-19 | Q307 | C-16 | | |
| IC807 | E-19 | Q308 | C-15 | Q909 | I-9 |
| IC808 | B-19 | Q309 | B-17 | Q910 | F-11 |
| IC809 | C-18 | | | Q911 | G-11 |
| IC810 | E-17 | Q310 | A-17 | Q912 | C-13 |
| | | Q311 | A-17 | Q913 | E-12 |
| IC811 | D-19 | Q312 | A-15 | | |
| IC812 | D-20 | Q313 | B-15 | | |

**Note on Schematic Diagram:**
**Note:**
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- ▭ : panel designation.
- [B+] : B+ Line.
- ▬ : adjustment for repair.
- Power voltage is dc 14.4V and fed with regulated dc power supply from REMOTE and +12V terminals.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path. ⇨

## 5-2. PRINTED WIRING BOARDS



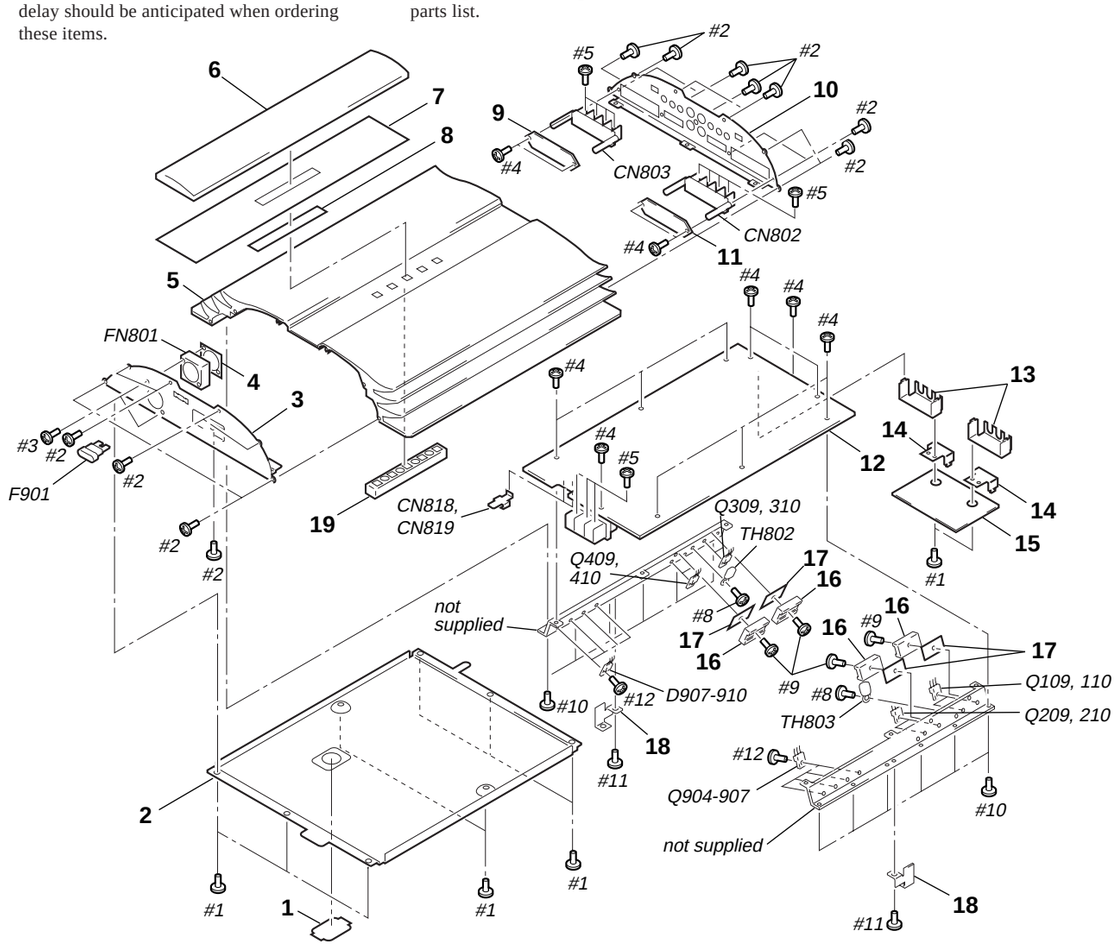
## 5-3. SCHEMATIC DIAGRAM



# SECTION 6
# EXPLODED VIEW

NOTE :

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 1 | 3-023-803-01 | COVER | |
| * 2 | 3-023-796-01 | PLATE, BOTTOM | |
| * 3 | 3-023-131-01 | PANEL, FRONT | |
| * 4 | 3-023-795-01 | BRACKET (FAN) | |
| * 5 | 3-023-801-01 | HEAT SINK | |
| * 6 | 3-023-797-11 | PLATE, ORNAMENTAL | |
| * 7 | 3-025-082-01 | SHEET (DOUBLE-FACE) | |
| * 8 | 3-023-804-01 | SHEET, DIFFUSION | |
| * 9 | 1-669-871-11 | SP (REAR) BOARD | |
| * 10 | 3-023-132-01 | PANEL, REAR | |
| * 11 | 1-669-870-11 | SP (FRONT) BOARD | |
| * 12 | A-3313-744-A | AMPLIFIER BOARD, COMPLETE | |
| * 13 | 3-023-798-01 | BRACKET (VR) | |
| * 14 | 3-023-799-01 | BRACKET (HIGH LEVEL) | |
| * 15 | 1-669-872-11 | HIGH LEVEL BOARD | |
| * 16 | 3-936-982-01 | PLATE (TR), RETAINER | |
| * 17 | 3-025-081-01 | SHEET (INSULATING) | |
| * 18 | 3-023-800-01 | BRACKET (BOTTOM PLATE) | |
| * 19 | 3-025-083-01 | RUBBER, LIGHT INTERCEPTION | |
| CN802 | 1-694-425-11 | TERMINAL BOARD (4P) (FRONT SPEAKER OUT) | |
| CN803 | 1-694-425-11 | TERMINAL BOARD (4P) (REAR SPEAKER OUT) | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| CN818 | 1-537-479-11 | TERMINAL | |
| CN819 | 1-537-479-11 | TERMINAL | |
| D907 | 8-719-210-30 | DIODE F10P20F(R) | |
| D908 | 8-719-210-30 | DIODE F10P20F(R) | |
| D909 | 8-719-210-30 | DIODE F10P20F(R) | |
| D910 | 8-719-210-30 | DIODE F10P20F(R) | |
| F901 | 1-533-743-11 | FUSE (BLADE TYPE) (AUTO FUSE) (40A) | |
| FN801 | 1-763-107-11 | MOTOR, FAN | |
| Q109 | 8-729-038-52 | TRANSISTOR IRF540(H) | |
| Q110 | 8-729-038-01 | TRANSISTOR IRF9540(H) | |
| Q209 | 8-729-038-52 | TRANSISTOR IRF540(H) | |
| Q210 | 8-729-038-01 | TRANSISTOR IRF9540(H) | |
| Q309 | 8-729-038-52 | TRANSISTOR IRF540(H) | |
| Q310 | 8-729-038-01 | TRANSISTOR IRF9540(H) | |
| Q409 | 8-729-038-52 | TRANSISTOR IRF540(H) | |
| Q410 | 8-729-038-01 | TRANSISTOR IRF9540(H) | |
| Q904 | 8-729-030-72 | TRANSISTOR MTAJ50N05HD | |
| Q905 | 8-729-030-72 | TRANSISTOR MTAJ50N05HD | |
| Q906 | 8-729-030-72 | TRANSISTOR MTAJ50N05HD | |
| Q907 | 8-729-030-72 | TRANSISTOR MTAJ50N05HD | |
| TH802 | 1-809-664-51 | THERMISTOR, POSITIVE | |
| TH803 | 1-809-664-51 | THERMISTOR, POSITIVE | |



# AMPLIFIER

# SECTION 7
# ELECTRICAL PARTS LIST

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE :Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ , for example :
  uA.... : µ A.... , uPA.... : µ PA....
  uPB.... : µ PB.... , uPC.... : µ PC....
  uPD.... : µ PD....
- CAPACITORS
  uF : µ F
- COILS
  uH : µ H
- Abbreviation
  G : German

When indicating parts by reference number, please include the board.

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| * | A-3313-744-A | AMPLIFIER BOARD, COMPLETE | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C101 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C102 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C103 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C104 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C105 | 1-163-231-11 | CERAMIC CHIP | 15PF | 5% | 50V |
| C106 | 1-136-167-00 | FILM | 0.15uF | 5% | 50V |
| C107 | 1-136-167-00 | FILM | 0.15uF | 5% | 50V |
| C108 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C109 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C110 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C111 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C112 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C113 | 1-126-957-11 | ELECT | 0.22uF | 20% | 50V |
| C114 | 1-126-008-11 | ELECT | 47uF | 20% | 16V |
| C115 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C121 | 1-104-661-11 | ELECT | 330uF | 20% | 16V |
| C123 | 1-126-008-11 | ELECT | 47uF | 20% | 16V |
| C126 | 1-102-951-00 | CERAMIC | 15PF | 5% | 50V |
| C127 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C130 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C201 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C202 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C203 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C204 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C205 | 1-163-231-11 | CERAMIC CHIP | 15PF | 5% | 50V |
| C206 | 1-136-167-00 | FILM | 0.15uF | 5% | 50V |
| C207 | 1-136-167-00 | FILM | 0.15uF | 5% | 50V |
| C208 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C209 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C210 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C211 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C212 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C213 | 1-126-957-11 | ELECT | 0.22uF | 20% | 50V |
| C214 | 1-126-008-11 | ELECT | 47uF | 20% | 16V |
| C215 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C221 | 1-164-222-11 | CERAMIC CHIP | 0.22uF | | 25V |
| C222 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C223 | 1-126-008-11 | ELECT | 47uF | 20% | 16V |
| C226 | 1-102-951-00 | CERAMIC | 15PF | 5% | 50V |
| C227 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C230 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C301 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C302 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C303 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C304 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C305 | 1-163-231-11 | CERAMIC CHIP | 15PF | 5% | 50V |
| C306 | 1-136-167-00 | FILM | 0.15uF | 5% | 50V |
| C307 | 1-136-167-00 | FILM | 0.15uF | 5% | 50V |
| C308 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C309 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C310 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C311 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C312 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C313 | 1-126-957-11 | ELECT | 0.22uF | 20% | 50V |
| C314 | 1-126-008-11 | ELECT | 47uF | 20% | 16V |
| C315 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C322 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C323 | 1-126-008-11 | ELECT | 47uF | 20% | 16V |
| C326 | 1-102-951-00 | CERAMIC | 15PF | 5% | 50V |
| C327 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C330 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C401 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C402 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C403 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C404 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C405 | 1-163-231-11 | CERAMIC CHIP | 15PF | 5% | 50V |
| C406 | 1-136-167-00 | FILM | 0.15uF | 5% | 50V |
| C407 | 1-136-167-00 | FILM | 0.15uF | 5% | 50V |
| C408 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C409 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C410 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C411 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C412 | 1-126-047-11 | ELECT | 4.7uF | 20% | 50V |
| C413 | 1-126-957-11 | ELECT | 0.22uF | 20% | 50V |
| C414 | 1-126-008-11 | ELECT | 47uF | 20% | 16V |
| C415 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C421 | 1-164-222-11 | CERAMIC CHIP | 0.22uF | | 25V |
| C422 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C423 | 1-126-008-11 | ELECT | 47uF | 20% | 16V |
| C426 | 1-102-951-00 | CERAMIC | 15PF | 5% | 50V |
| C427 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C430 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C801 | 1-124-282-00 | ELECT | 22uF | 20% | 16V |
| C802 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C803 | 1-126-967-11 | ELECT | 47uF | 20% | 10V |
| C804 | 1-126-956-11 | ELECT | 0.1uF | 20% | 50V |
| C805 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C806 | 1-128-551-11 | ELECT | 22uF | 20% | 25V |
| C807 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C808 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C809 | 1-128-551-11 | ELECT | 22uF | 20% | 25V |
| C810 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C811 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C901 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C902 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C903 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C904 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C905 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C906 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C907 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C908 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C909 | 1-106-343-00 | MYLAR | 1000PF | 5% | 200V |
| C910 | 1-128-551-11 | ELECT | 22uF | 20% | 25V |
| C911 | 1-126-933-11 | ELECT | 100uF | 20% | 10V |
| C912 | 1-126-933-11 | ELECT | 100uF | 20% | 16V |
| C913 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C914 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C915 | 1-136-173-00 | FILM | 0.47uF | 5% | 50V |
| C916 | 1-106-383-00 | MYLAR | 0.047uF | 5% | 200V |
| C917 | 1-111-044-11 | ELECT | 2200uF | 20% | 16V |
| C918 | 1-111-044-11 | ELECT | 2200uF | 20% | 16V |
| C919 | 1-111-044-11 | ELECT | 2200uF | 20% | 16V |
| C920 | 1-126-052-11 | ELECT | 100uF | 20% | 50V |
| C921 | 1-126-052-11 | ELECT | 100uF | 20% | 50V |
| C922 | 1-136-177-00 | FILM | 1uF | 5% | 50V |
| C923 | 1-136-177-00 | FILM | 1uF | 5% | 50V |
| C924 | 1-126-052-11 | ELECT | 100uF | 20% | 35V |
| C925 | 1-126-052-11 | ELECT | 100uF | 20% | 35V |
| C926 | 1-125-826-11 | CAP ACIT OR | 5600uF | | 50V |
| C927 | 1-125-826-11 | CAP ACIT OR | 5600uF | | 50V |
| C928 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C929 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C930 | 1-126-009-11 | ELECT | 100uF | 20% | 16V |
| C931 | 1-126-009-11 | ELECT | 100uF | 20% | 16V |
| C932 | 1-107-364-11 | MYLAR | 0.01uF | 10% | 200V |
| C933 | 1-111-044-11 | ELECT | 2200uF | 20% | 16V |
| C933 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C934 | 1-165-319-11 | CERAMIC CHIP | 0.1uF | | 50V |
| C935 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C936 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C937 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C938 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C939 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C940 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C941 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| | | <CONNECTOR> | | | |
| CN801 | 1-537-477-21 | TERMINAL BOARD (3P) (REMOTE, +12V , GND) | | | |
| CN818 | 1-537-479-11 | TERMINAL | | | |
| CN819 | 1-537-479-11 | TERMINAL | | | |
| CNP802 | 1-784-917-11 | CONNECTOR, BOARD TO BOARD 9P | | | |
| * CNP803 | 1-564-704-11 | PIN, CONNECTOR (SMALL TYPE) 2P | | | |
| CNP804 | 1-564-320-00 | PIN, CONNECTOR (B2P-VH) 2P | | | |
| CNP805 | 1-564-320-00 | PIN, CONNECTOR (B2P-VH) 2P | | | |
| CNP806 | 1-564-320-00 | PIN, CONNECTOR (B2P-VH) 2P | | | |
| CNP807 | 1-564-320-00 | PIN, CONNECTOR (B2P-VH) 2P | | | |
| | | <PIN JACK> | | | |
| CNJ801 | 1-779-078-51 | JACK, PIN 4P (INPUT) | | | |
| | | <DIODE> | | | |
| D801 | 8-719-025-34 | DIODE 02CZ6.8-TE85L | | | |
| D802 | 8-719-801-78 | DIODE 1SS184 | | | |
| D803 | 8-719-801-78 | DIODE 1SS184 | | | |
| D804 | 8-719-801-78 | DIODE 1SS184 | | | |
| D805 | 8-719-801-78 | DIODE 1SS184 | | | |
| D806 | 8-719-158-49 | DIODE RD12SB2 | | | |
| D807 | 8-719-801-78 | DIODE 1SS184 | | | |
| D808 | 8-719-070-01 | LED SEC2764C (OVER CURRENT) | | | |
| D809 | 8-719-070-01 | LED SEC2764C (OFFSET) | | | |
| D810 | 8-719-070-01 | LED SEC2764C (THERMAL) | | | |
| D811 | 8-719-070-01 | LED SEC2764C (HI-CURRENT) | | | |
| D812 | 8-719-070-01 | LED SEC2764C (HI-VOL TAGE) | | | |
| D901 | 8-719-025-34 | DIODE 02CZ6.8-TE85L | | | |
| D902 | 8-719-025-50 | DIODE 02CZ16-TE85L | | | |
| D903 | 8-719-987-67 | DIODE 11EFS2 | | | |
| D904 | 8-719-987-67 | DIODE 11EFS2 | | | |
| D905 | 8-719-054-55 | DIODE 1SS306(TE85L) | | | |
| D906 | 8-719-054-55 | DIODE 1SS306(TE85L) | | | |
| D907 | 8-719-210-30 | DIODE F10P20F(R) | | | |
| D908 | 8-719-210-30 | DIODE F10P20F(R) | | | |
| D909 | 8-719-210-30 | DIODE F10P20F(R) | | | |
| D910 | 8-719-210-30 | DIODE F10P20F(R) | | | |
| D911 | 8-719-801-78 | DIODE 1SS184 | | | |
| D912 | 8-719-801-78 | DIODE 1SS184 | | | |
| D913 | 8-719-025-49 | DIODE 02CZ15-TE85L | | | |
| D914 | 8-719-025-49 | DIODE 02CZ15-TE85L | | | |
| D915 | 8-719-025-49 | DIODE 02CZ15-TE85L | | | |
| D916 | 8-719-025-49 | DIODE 02CZ15-TE85L | | | |
| D917 | 8-719-987-67 | DIODE 11EFS2 | | | |
| D918 | 8-719-987-67 | DIODE 11EFS2 | | | |
| | | <IC> | | | |
| IC801 | 8-759-711-82 | IC NJM4580E | | | |
| IC802 | 8-759-711-82 | IC NJM4580E | | | |
| IC803 | 8-759-711-82 | IC NJM4580E | | | |
| IC804 | 8-759-711-82 | IC NJM4580E | | | |
| IC805 | 8-759-711-82 | IC NJM4580E | | | |
| IC806 | 8-759-711-82 | IC NJM4580E | | | |
| IC807 | 8-759-711-82 | IC NJM4580E | | | |
| IC808 | 8-759-711-82 | IC NJM4580E | | | |
| IC809 | 8-759-711-82 | IC NJM4580E | | | |
| IC810 | 8-759-711-82 | IC NJM4580E | | | |
| IC811 | 8-759-711-82 | IC NJM4580E | | | |
| IC812 | 8-759-711-82 | IC NJM4580E | | | |
| IC813 | 8-719-156-72 | PHOTO COUPLER PS2501-1KA | | | |

Ver 1.1

# AMPLIFIER

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| IC901 | 8-759-144-88 | ICUPC494GS | |
| IC902 | 8-719-156-72 | PHOTO COUPLER PS2501-1KA | |
| | | <JUMPER RESISTOR> | |
| JR1 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR2 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR3 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR4 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR5 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR6 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR7 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR8 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR9 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR10 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR11 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR12 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR13 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR14 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR15 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR16 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR17 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR18 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR19 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR20 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR21 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR22 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR23 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR24 | 1-216-295-00 | CONDUCTOR CHIP | |
| JR26 | 1-216-296-00 | CONDUCTOR CHIP | |
| JR27 | 1-216-296-00 | CONDUCTOR CHIP | |
| JR28 | 1-216-296-00 | CONDUCTOR CHIP | |
| JR29 | 1-216-296-00 | CONDUCTOR CHIP | |
| JR30 | 1-216-296-00 | CONDUCTOR CHIP | |
| JR31 | 1-216-296-00 | CONDUCTOR CHIP | |
| JR32 | 1-216-296-00 | CONDUCTOR CHIP | |
| JR33 | 1-216-296-00 | CONDUCTOR CHIP | |
| JR35 | 1-216-296-00 | CONDUCTOR CHIP | |
| JR41 | 1-216-296-00 | CONDUCTOR CHIP | |
| JR42 | 1-216-296-00 | CONDUCTOR CHIP | |
| JR43 | 1-216-296-00 | CONDUCTOR CHIP | |
| JR44 | 1-216-296-00 | CONDUCTOR CHIP | |
| JR45 | 1-216-296-00 | CONDUCTOR CHIP | |
| JR46 | 1-216-296-00 | CONDUCTOR CHIP | |
| JR47 | 1-216-296-00 | CONDUCTOR CHIP | |
| | | <COIL> | |
| L901 | 1-419-851-11 | INDUCTOR 50uH | |
| L902 | 1-410-396-71 | INDUCTOR 0.45uH | |
| L903 | 1-410-396-41 | FERRITE BEAD INDUCTOR | 0.45uH |
| L904 | 1-410-396-41 | FERRITE BEAD INDUCTOR | 0.45uH |
| L905 | 1-410-396-41 | FERRITE BEAD INDUCTOR | 0.45uH |
| L906 | 1-410-396-41 | FERRITE BEAD INDUCTOR | 0.45uH |
| L907 | 1-410-396-41 | FERRITE BEAD INDUCTOR | 0.45uH |
| L908 | 1-410-396-41 | FERRITE BEAD INDUCTOR | 0.45uH |
| | | <PILOT LAMP> | |
| PL801 | 1-518-540-00 | LAMP , PILOT | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | <TRANSISTOR> | |
| Q101 | 8-729-422-29 | TRANSISTOR 2SD601A-S | |
| Q102 | 8-729-203-48 | TRANSISTOR 2SC3327-A | |
| Q103 | 8-729-119-78 | TRANSISTOR 2SC403SP-51 | |
| Q104 | 8-729-173-38 | TRANSISTOR 2SA733-K | |
| Q105 | 8-729-119-78 | TRANSISTOR 2SC403SP-51 | |
| Q106 | 8-729-173-38 | TRANSISTOR 2SA733-K | |
| Q107 | 8-729-209-18 | TRANSISTOR 2SA1360-Y | |
| Q108 | 8-729-203-45 | TRANSISTOR 2SC3423-O | |
| Q109 | 8-729-038-52 | TRANSISTOR IRF540(H) | |
| Q110 | 8-729-038-01 | TRANSISTOR IRF9540(H) | |
| Q111 | 8-729-954-51 | TRANSISTOR 2SC1545 | |
| Q112 | 8-729-216-21 | TRANSISTOR 2SA1162-Y | |
| Q113 | 8-729-216-21 | TRANSISTOR 2SA1162-Y | |
| Q201 | 8-729-422-29 | TRANSISTOR 2SD601A-S | |
| Q202 | 8-729-203-48 | TRANSISTOR 2SC3327-A | |
| Q203 | 8-729-119-78 | TRANSISTOR 2SC403SP-51 | |
| Q204 | 8-729-173-38 | TRANSISTOR 2SA733-K | |
| Q205 | 8-729-119-78 | TRANSISTOR 2SC403SP-51 | |
| Q206 | 8-729-173-38 | TRANSISTOR 2SA733-K | |
| Q207 | 8-729-209-18 | TRANSISTOR 2SA1360-Y | |
| Q208 | 8-729-203-45 | TRANSISTOR 2SC3423-O | |
| Q209 | 8-729-038-52 | TRANSISTOR IRF540(H) | |
| Q210 | 8-729-038-01 | TRANSISTOR IRF9540(H) | |
| Q211 | 8-729-954-51 | TRANSISTOR 2SC1545 | |
| Q212 | 8-729-216-21 | TRANSISTOR 2SA1162-Y | |
| Q213 | 8-729-216-21 | TRANSISTOR 2SA1162-Y | |
| Q301 | 8-729-422-29 | TRANSISTOR 2SD601A-S | |
| Q302 | 8-729-203-48 | TRANSISTOR 2SC3327-A | |
| Q303 | 8-729-119-78 | TRANSISTOR 2SC403SP-51 | |
| Q304 | 8-729-173-38 | TRANSISTOR 2SA733-K | |
| Q305 | 8-729-119-78 | TRANSISTOR 2SC403SP-51 | |
| Q306 | 8-729-173-38 | TRANSISTOR 2SA733-K | |
| Q307 | 8-729-209-18 | TRANSISTOR 2SA1360-Y | |
| Q308 | 8-729-203-45 | TRANSISTOR 2SC3423-O | |
| Q309 | 8-729-038-52 | TRANSISTOR IRF540(H) | |
| Q310 | 8-729-038-01 | TRANSISTOR IRF9540(H) | |
| Q311 | 8-729-954-51 | TRANSISTOR 2SC1545 | |
| Q312 | 8-729-216-21 | TRANSISTOR 2SA1162-Y | |
| Q313 | 8-729-216-21 | TRANSISTOR 2SA1162-Y | |
| Q401 | 8-729-422-29 | TRANSISTOR 2SD601A-S | |
| Q402 | 8-729-203-48 | TRANSISTOR 2SC3327-A | |
| Q403 | 8-729-119-78 | TRANSISTOR 2SC403SP-51 | |
| Q404 | 8-729-173-38 | TRANSISTOR 2SA733-K | |
| Q405 | 8-729-119-78 | TRANSISTOR 2SC403SP-51 | |
| Q406 | 8-729-173-38 | TRANSISTOR 2SA733-K | |
| Q407 | 8-729-209-18 | TRANSISTOR 2SA1360-Y | |
| Q408 | 8-729-203-45 | TRANSISTOR 2SC3423-O | |
| Q409 | 8-729-038-52 | TRANSISTOR IRF540(H) | |
| Q410 | 8-729-038-01 | TRANSISTOR IRF9540(H) | |
| Q411 | 8-729-954-51 | TRANSISTOR 2SC1545 | |
| Q412 | 8-729-216-21 | TRANSISTOR 2SA1162-Y | |
| Q413 | 8-729-216-21 | TRANSISTOR 2SA1162-Y | |
| Q801 | 8-729-216-21 | TRANSISTOR 2SA1162-Y | |
| Q802 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| Q803 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| Q804 | 8-729-216-21 | TRANSISTOR 2SA1162-Y | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| Q805 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| Q806 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| Q807 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| Q808 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| Q809 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| Q810 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| Q811 | 8-729-216-21 | TRANSISTOR 2SA1162-Y | |
| Q812 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| Q813 | 8-729-216-21 | TRANSISTOR 2SA1162-Y | |
| Q814 | 8-729-106-68 | TRANSISTOR 2SD1615A-GP | |
| Q815 | 8-729-216-21 | TRANSISTOR 2SA1162-Y | |
| Q901 | 8-729-041-38 | TRANSISTOR 2SB1241TV2Q | |
| Q902 | 8-729-216-21 | TRANSISTOR 2SA1162-Y | |
| Q903 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| Q904 | 8-729-030-72 | TRANSIST OR MT AJ50N05HD | |
| Q905 | 8-729-030-72 | TRANSIST OR MT AJ50N05HD | |
| Q906 | 8-729-030-72 | TRANSIST OR MT AJ50N05HD | |
| Q907 | 8-729-030-72 | TRANSIST OR MT AJ50N05HD | |
| Q908 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| Q909 | 8-729-230-49 | TRANSISTOR 2SC2712-YG | |
| Q910 | 8-729-209-15 | TRANSISTOR 2SD2012 | |
| Q911 | 8-729-141-83 | TRANSISTOR 2SB1094-LK | |
| Q912 | 8-729-119-78 | TRANSISTOR 2SC403SP-51 | |
| Q913 | 8-729-173-38 | TRANSISTOR 2SA733-K | |
| | | <RESISTOR> | |
| R101 | 1-208-518-11 | RES,CHIP 22K 2% 1/10W | |
| R102 | 1-208-518-11 | RES,CHIP 22K 2% 1/10W | |
| R103 | 1-216-238-00 | RES,CHIP 47K 2% 1/8W | |
| R104 | 1-216-238-00 | RES,CHIP 47K 2% 1/8W | |
| R105 | 1-208-518-11 | RES,CHIP 22K 2% 1/10W | |
| R106 | 1-208-518-11 | RES,CHIP 22K 2% 1/10W | |
| R107 | 1-208-462-11 | RES,CHIP 10K 2% 1/10W | |
| R108 | 1-216-230-00 | RES,CHIP 22K 2% 1/8W | |
| R109 | 1-208-462-11 | RES,CHIP 10K 2% 1/10W | |
| R110 | 1-216-671-11 | MET AL CHIP 6.8K 0.5% 1/10W | |
| R111 | 1-216-214-00 | RES,CHIP 4.7K 2% 1/10W | |
| R112 | 1-208-462-11 | RES,CHIP 10K 2% 1/10W | |
| R113 | 1-216-214-00 | RES,CHIP 4.7K 2% 1/8W | |
| R114 | 1-208-534-11 | RES,CHIP 100K 2% 1/10W | |
| R115 | 1-208-534-11 | RES,CHIP 100K 2% 1/10W | |
| R116 | 1-208-534-11 | RES,CHIP 100K 2% 1/10W | |
| R117 | 1-216-635-11 | MET AL CHIP 220 0.5% 1/10W | |
| R118 | 1-208-534-11 | RES,CHIP 100K 2% 1/10W | |
| R119 | 1-208-449-11 | RES,CHIP 3.3K 2% 1/10W | |
| R120 | 1-216-647-11 | MET AL CHIP 680 0.5% 1/10W | |
| R121 | 1-208-518-11 | RES,CHIP 22K 2% 1/10W | |
| R122 | 1-216-671-11 | MET AL CHIP 6.8K 0.5% 1/10W | |
| R123 | 1-208-462-11 | RES,CHIP 10K 2% 1/10W | |
| R124 | 1-208-760-11 | RES,CHIP 120 2% 1/10W | |
| R126 | 1-216-210-00 | RES,CHIP 3.3K 2% 1/8W | |
| R127 | 1-208-518-11 | RES,CHIP 22K 2% 1/10W | |
| R128 | 1-208-449-11 | RES,CHIP 3.3K 2% 1/10W | |
| R129 | 1-208-453-11 | RES,CHIP 4.7K 2% 1/10W | |
| R130 | 1-208-453-11 | RES,CHIP 4.7K 2% 1/10W | |
| R131 | 1-208-810-11 | RES,CHIP 15K 2% 1/10W | |
| R132 | 1-208-810-11 | RES,CHIP 15K 2% 1/10W | |
| R133 | 1-216-635-11 | MET AL CHIP 220 0.5% 1/10W | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| R134 | 1-216-635-11 | MET AL CHIP 220 0.5% 1/10W | |
| R135 | 1-208-365-11 | RES,CHIP 100 2% 1/8W | |
| R136 | 1-208-365-11 | RES,CHIP 100 2% 1/8W | |
| R137 | 1-208-534-11 | RES,CHIP 100K 2% 1/10W | |
| R138 | 1-208-534-11 | RES,CHIP 100K 2% 1/10W | |
| R139 | 1-249-419-11 | CARBON 1.5K 5% 1/4W | |
| R140 | 1-247-843-11 | CARBON 3.3K 5% 1/4W | |
| R141 | 1-216-685-11 | MET AL CHIP 27K 0.5% 1/10W | |
| R142 | 1-208-462-11 | RES,CHIP 10K 2% 1/10W | |
| R143 | 1-240-179-11 | MET AL PLATE 0.03X2 5W F | |
| R144 | 1-208-810-11 | RES,CHIP 15K 2% 1/10W | |
| R145 | 1-208-453-11 | RES,CHIP 4.7K 2% 1/10W | |
| R146 | 1-208-800-11 | RES,CHIP 5.6K 2% 1/10W | |
| R147 | 1-208-453-11 | RES,CHIP 4.7K 2% 1/10W | |
| R148 | 1-208-510-11 | RES,CHIP 10K 2% 1/8W | |
| R149 | 1-208-510-11 | RES,CHIP 10K 2% 1/8W | |
| R150 | 1-208-550-11 | RES,CHIP 470K 2% 1/10W | |
| R152 | 1-208-441-11 | RES,CHIP 1.5K 2% 1/10W | |
| R201 | 1-208-518-11 | RES,CHIP 22K 2% 1/10W | |
| R202 | 1-208-518-11 | RES,CHIP 22K 2% 1/10W | |
| R203 | 1-208-526-11 | RES,CHIP 47K 2% 1/10W | |
| R204 | 1-208-526-11 | RES,CHIP 47K 2% 1/10W | |
| R205 | 1-208-518-11 | RES,CHIP 22K 2% 1/10W | |
| R206 | 1-208-518-11 | RES,CHIP 22K 2% 1/10W | |
| R207 | 1-208-462-11 | RES,CHIP 10K 2% 1/10W | |
| R208 | 1-208-518-11 | RES,CHIP 22K 2% 1/10W | |
| R209 | 1-208-462-11 | RES,CHIP 10K 2% 1/10W | |
| R210 | 1-208-506-11 | RES,CHIP 6.8K 2% 1/8W | |
| R211 | 1-208-453-11 | RES,CHIP 4.7K 2% 1/10W | |
| R212 | 1-208-462-11 | RES,CHIP 10K 2% 1/10W | |
| R213 | 1-216-214-00 | RES,CHIP 4.7K 2% 1/8W | |
| R214 | 1-208-534-11 | RES,CHIP 100K 2% 1/10W | |
| R215 | 1-208-534-11 | RES,CHIP 100K 2% 1/10W | |
| R216 | 1-208-534-11 | RES,CHIP 100K 2% 1/10W | |
| R217 | 1-216-635-11 | MET AL CHIP 220 0.5% 1/10W | |
| R218 | 1-216-246-00 | RES,CHIP 100K 2% 1/8W | |
| R219 | 1-208-449-11 | RES,CHIP 3.3K 2% 1/10W | |
| R220 | 1-216-647-11 | MET AL CHIP 680 0.5% 1/10W | |
| R221 | 1-208-518-11 | RES,CHIP 22K 2% 1/10W | |
| R222 | 1-216-671-11 | MET AL CHIP 6.8K 0.5% 1/10W | |
| R223 | 1-208-462-11 | RES,CHIP 10K 2% 1/10W | |
| R224 | 1-208-760-11 | RES,CHIP 120 2% 1/10W | |
| R226 | 1-208-437-11 | RES,CHIP 1K 2% 1/10W | |
| R227 | 1-208-518-11 | RES,CHIP 22K 2% 1/10W | |
| R228 | 1-208-449-11 | RES,CHIP 3.3K 2% 1/10W | |
| R229 | 1-208-453-11 | RES,CHIP 4.7K 2% 1/10W | |
| R230 | 1-208-453-11 | RES,CHIP 4.7K 2% 1/10W | |
| R231 | 1-208-810-11 | RES,CHIP 15K 2% 1/10W | |
| R232 | 1-208-810-11 | RES,CHIP 15K 2% 1/10W | |
| R233 | 1-216-635-11 | MET AL CHIP 220 0.5% 1/10W | |
| R234 | 1-216-635-11 | MET AL CHIP 220 0.5% 1/10W | |
| R235 | 1-208-365-11 | RES,CHIP 100 2% 1/8W | |
| R236 | 1-208-365-11 | RES,CHIP 100 2% 1/8W | |
| R237 | 1-208-534-11 | RES,CHIP 100K 2% 1/10W | |
| R238 | 1-208-534-11 | RES,CHIP 100K 2% 1/10W | |
| R239 | 1-249-419-11 | CARBON 1.5K 5% 1/4W | |
| R240 | 1-247-843-11 | CARBON 3.3K 5% 1/4W | |
| R241 | 1-216-685-11 | MET AL CHIP 27K 0.5% 1/10W | |

## AMPLIFIER

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R242 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R243 | 1-240-179-11 | MET AL PLATE | 0.03X2 | | 5W F |
| R244 | 1-208-810-11 | RES,CHIP | 15K | 2% | 1/10W |
| R245 | 1-208-453-11 | RES,CHIP | 4.7K | 2% | 1/10W |
| R246 | 1-208-800-11 | RES,CHIP | 5.6K | 2% | 1/10W |
| R247 | 1-208-453-11 | RES,CHIP | 4.7K | 2% | 1/10W |
| R248 | 1-208-510-11 | RES,CHIP | 10K | 2% | 1/8W |
| R249 | 1-208-510-11 | RES,CHIP | 10K | 2% | 1/8W |
| R250 | 1-208-550-11 | RES,CHIP | 470K | 2% | 1/10W |
| R252 | 1-208-441-11 | RES,CHIP | 1.5K | 2% | 1/10W |
| R301 | 1-208-518-11 | RES,CHIP | 22K | 2% | 1/10W |
| R302 | 1-208-518-11 | RES,CHIP | 22K | 2% | 1/10W |
| R303 | 1-208-526-11 | RES,CHIP | 47K | 2% | 1/10W |
| R304 | 1-208-526-11 | RES,CHIP | 47K | 2% | 1/10W |
| R305 | 1-216-230-00 | RES,CHIP | 22K | 2% | 1/8W |
| R306 | 1-208-518-11 | RES,CHIP | 22K | 2% | 1/10W |
| R307 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R308 | 1-208-518-11 | RES,CHIP | 22K | 2% | 1/10W |
| R309 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R310 | 1-208-506-11 | RES,CHIP | 6.8K | 2% | 1/8W |
| R311 | 1-208-453-11 | RES,CHIP | 4.7K | 2% | 1/10W |
| R312 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R313 | 1-216-214-00 | RES,CHIP | 4.7K | 2% | 1/8W |
| R314 | 1-208-534-11 | RES,CHIP | 100K | 2% | 1/10W |
| R315 | 1-208-534-11 | RES,CHIP | 100K | 2% | 1/10W |
| R316 | 1-208-534-11 | RES,CHIP | 100K | 2% | 1/10W |
| R317 | 1-216-182-00 | RES,CHIP | 220 | 2% | 1/8W |
| R318 | 1-208-534-11 | RES,CHIP | 100K | 2% | 1/10W |
| R319 | 1-208-449-11 | RES,CHIP | 3.3K | 2% | 1/10W |
| R320 | 1-216-647-11 | MET AL CHIP | 680 | 0.5% | 1/10W |
| R321 | 1-208-518-11 | RES,CHIP | 22K | 2% | 1/10W |
| R322 | 1-216-671-11 | MET AL CHIP | 6.8K | 0.5% | 1/10W |
| R323 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R324 | 1-208-760-11 | RES,CHIP | 120 | 2% | 1/10W |
| R326 | 1-208-437-11 | RES,CHIP | 1K | 2% | 1/10W |
| R327 | 1-208-518-11 | RES,CHIP | 22K | 2% | 1/10W |
| R328 | 1-208-449-11 | RES,CHIP | 3.3K | 2% | 1/10W |
| R329 | 1-208-453-11 | RES,CHIP | 4.7K | 2% | 1/10W |
| R330 | 1-208-453-11 | RES,CHIP | 4.7K | 2% | 1/10W |
| R331 | 1-208-810-11 | RES,CHIP | 15K | 2% | 1/10W |
| R332 | 1-208-810-11 | RES,CHIP | 15K | 2% | 1/10W |
| R333 | 1-216-635-11 | MET AL CHIP | 220 | 0.5% | 1/10W |
| R334 | 1-216-635-11 | MET AL CHIP | 220 | 0.5% | 1/10W |
| R335 | 1-208-365-11 | RES,CHIP | 100 | 2% | 1/8W |
| R336 | 1-208-365-11 | RES,CHIP | 100 | 2% | 1/8W |
| R337 | 1-208-534-11 | RES,CHIP | 100K | 2% | 1/10W |
| R338 | 1-208-534-11 | RES,CHIP | 100K | 2% | 1/10W |
| R339 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R340 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R341 | 1-216-685-11 | MET AL CHIP | 27K | 0.5% | 1/10W |
| R342 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R343 | 1-240-179-11 | MET AL PLATE | 0.03X2 | | 5W F |
| R344 | 1-208-810-11 | RES,CHIP | 15K | 2% | 1/10W |
| R345 | 1-208-453-11 | RES,CHIP | 4.7K | 2% | 1/10W |
| R346 | 1-208-800-11 | RES,CHIP | 5.6K | 2% | 1/10W |
| R347 | 1-208-453-11 | RES,CHIP | 4.7K | 2% | 1/10W |
| R348 | 1-208-510-11 | RES,CHIP | 10K | 2% | 1/8W |
| R349 | 1-208-510-11 | RES,CHIP | 10K | 2% | 1/8W |
| R350 | 1-208-550-11 | RES,CHIP | 470K | 2% | 1/10W |
| R352 | 1-208-441-11 | RES,CHIP | 1.5K | 2% | 1/10W |
| R401 | 1-208-518-11 | RES,CHIP | 22K | 2% | 1/10W |
| R402 | 1-208-518-11 | RES,CHIP | 22K | 2% | 1/10W |
| R403 | 1-208-526-11 | RES,CHIP | 47K | 2% | 1/10W |
| R404 | 1-208-526-11 | RES,CHIP | 47K | 2% | 1/10W |
| R405 | 1-208-518-11 | RES,CHIP | 22K | 2% | 1/10W |
| R406 | 1-208-518-11 | RES,CHIP | 22K | 2% | 1/10W |
| R407 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R408 | 1-208-518-11 | RES,CHIP | 22K | 2% | 1/10W |
| R409 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R410 | 1-208-506-11 | RES,CHIP | 6.8K | 2% | 1/8W |
| R411 | 1-208-453-11 | RES,CHIP | 4.7K | 2% | 1/10W |
| R412 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R413 | 1-216-214-00 | RES,CHIP | 4.7K | 2% | 1/8W |
| R414 | 1-208-534-11 | RES,CHIP | 100K | 2% | 1/10W |
| R415 | 1-208-534-11 | RES,CHIP | 100K | 2% | 1/10W |
| R416 | 1-208-534-11 | RES,CHIP | 100K | 2% | 1/10W |
| R417 | 1-216-635-11 | MET AL CHIP | 220 | 0.5% | 1/10W |
| R418 | 1-208-534-11 | RES,CHIP | 100K | 2% | 1/10W |
| R419 | 1-208-449-11 | RES,CHIP | 3.3K | 2% | 1/10W |
| R420 | 1-216-647-11 | MET AL CHIP | 680 | 0.5% | 1/10W |
| R421 | 1-208-518-11 | RES,CHIP | 22K | 2% | 1/10W |
| R422 | 1-216-671-11 | MET AL CHIP | 6.8K | 0.5% | 1/10W |
| R423 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R424 | 1-208-760-11 | RES,CHIP | 120 | 2% | 1/10W |
| R426 | 1-208-437-11 | RES,CHIP | 1K | 2% | 1/10W |
| R427 | 1-208-518-11 | RES,CHIP | 22K | 2% | 1/10W |
| R428 | 1-208-449-11 | RES,CHIP | 3.3K | 2% | 1/10W |
| R429 | 1-208-453-11 | RES,CHIP | 4.7K | 2% | 1/10W |
| R430 | 1-208-453-11 | RES,CHIP | 4.7K | 2% | 1/10W |
| R431 | 1-208-810-11 | RES,CHIP | 15K | 2% | 1/10W |
| R432 | 1-208-810-11 | RES,CHIP | 15K | 2% | 1/10W |
| R433 | 1-216-635-11 | MET AL CHIP | 220 | 0.5% | 1/10W |
| R434 | 1-216-635-11 | MET AL CHIP | 220 | 0.5% | 1/10W |
| R435 | 1-208-365-11 | RES,CHIP | 100 | 2% | 1/8W |
| R436 | 1-208-365-11 | RES,CHIP | 100 | 2% | 1/8W |
| R437 | 1-208-534-11 | RES,CHIP | 100K | 2% | 1/10W |
| R438 | 1-208-534-11 | RES,CHIP | 100K | 2% | 1/10W |
| R439 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R440 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W |
| R441 | 1-216-685-11 | MET AL CHIP | 27K | 0.5% | 1/10W |
| R442 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R443 | 1-240-179-11 | MET AL PLATE | 0.03X2 | | 5W F |
| R444 | 1-208-810-11 | RES,CHIP | 15K | 2% | 1/10W |
| R445 | 1-208-453-11 | RES,CHIP | 4.7K | 2% | 1/10W |
| R446 | 1-208-800-11 | RES,CHIP | 5.6K | 2% | 1/10W |
| R447 | 1-208-453-11 | RES,CHIP | 4.7K | 2% | 1/10W |
| R448 | 1-208-510-11 | RES,CHIP | 10K | 2% | 1/8W |
| R449 | 1-208-510-11 | RES,CHIP | 10K | 2% | 1/8W |
| R450 | 1-208-550-11 | RES,CHIP | 470K | 2% | 1/10W |
| R452 | 1-216-202-00 | RES,CHIP | 1.5K | 2% | 1/8W |
| R801 | 1-208-558-11 | RES,CHIP | 1M | 2% | 1/10W |
| R802 | 1-208-437-11 | RES,CHIP | 1K | 2% | 1/10W |
| R803 | 1-208-510-11 | RES,CHIP | 10K | 2% | 1/8W |
| R804 | 1-216-698-11 | MET AL CHIP | 91K | 0.5% | 1/10W |
| R805 | 1-208-522-11 | RES,CHIP | 33K | 2% | 1/10W |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R806 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R807 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R808 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R809 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R810 | 1-208-558-11 | RES,CHIP | 1M | 2% | 1/10W |
| R811 | 1-208-494-11 | RES,CHIP | 2.2K | 2% | 1/8W |
| R812 | 1-208-486-11 | RES,CHIP | 1K | 2% | 1/8W |
| R813 | 1-216-210-00 | RES,CHIP | 3.3K | 2% | 1/8W |
| R814 | 1-208-486-11 | RES,CHIP | 1K | 2% | 1/8W |
| R815 | 1-216-210-00 | RES,CHIP | 3.3K | 2% | 1/8W |
| R816 | 1-208-486-11 | RES,CHIP | 1K | 2% | 1/8W |
| R817 | 1-216-210-00 | RES,CHIP | 3.3K | 2% | 1/8W |
| R818 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R819 | 1-208-510-11 | RES,CHIP | 10K | 2% | 1/8W |
| R820 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R821 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R822 | 1-216-210-00 | RES,CHIP | 3.3K | 2% | 1/8W |
| R823 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R824 | 1-216-238-00 | RES,CHIP | 47K | 2% | 1/8W |
| R825 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R826 | 1-208-510-11 | RES,CHIP | 10K | 2% | 1/8W |
| R827 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R828 | 1-208-449-11 | RES,CHIP | 3.3K | 2% | 1/10W |
| R829 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R830 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R832 | 1-216-210-00 | RES,CHIP | 3.3K | 2% | 1/8W |
| R833 | 1-208-522-11 | RES,CHIP | 33K | 2% | 1/10W |
| R834 | 1-208-522-11 | RES,CHIP | 33K | 2% | 1/10W |
| R835 | 1-208-526-11 | RES,CHIP | 47K | 2% | 1/10W |
| R836 | 1-208-526-11 | RES,CHIP | 47K | 2% | 1/10W |
| R837 | 1-208-449-11 | RES,CHIP | 3.3K | 2% | 1/10W |
| R838 | 1-208-423-11 | RES,CHIP | 270 | 2% | 1/10W |
| R839 | 1-208-558-11 | RES,CHIP | 1M | 2% | 1/10W |
| R840 | 1-208-486-11 | RES,CHIP | 1K | 2% | 1/8W |
| R841 | 1-208-486-11 | RES,CHIP | 1K | 2% | 1/8W |
| R842 | 1-208-425-11 | RES,CHIP | 330 | 2% | 1/10W |
| R843 | 1-208-441-11 | RES,CHIP | 1.5K | 2% | 1/10W |
| R844 | 1-208-486-11 | RES,CHIP | 1K | 2% | 1/8W |
| R850 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R901 | 1-208-462-11 | RES,CHIP | 10K | 2% | 1/10W |
| R902 | 1-208-449-11 | RES,CHIP | 3.3K | 2% | 1/10W |
| R903 | 1-208-518-11 | RES,CHIP | 22K | 2% | 1/10W |
| R904 | 1-208-812-11 | RES,CHIP | 18K | 2% | 1/10W |
| R905 | 1-218-760-11 | RES,CHIP | 220K | 2% | 1/10W |
| R906 | 1-216-210-00 | RES,CHIP | 3.3K | 2% | 1/8W |
| R907 | 1-216-202-00 | RES,CHIP | 1.5K | 2% | 1/8W |
| R908 | 1-216-202-00 | RES,CHIP | 1.5K | 2% | 1/8W |
| R909 | 1-208-449-11 | RES,CHIP | 3.3K | 2% | 1/10W |
| R910 | 1-208-453-11 | RES,CHIP | 4.7K | 2% | 1/10W |
| R911 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W |
| R912 | 1-208-474-11 | RES,CHIP | 330 | 2% | 1/8W |
| R913 | 1-208-478-11 | RES,CHIP | 470 | 2% | 1/8W |
| R914 | 1-208-478-11 | RES,CHIP | 470 | 2% | 1/8W |
| R915 | 1-208-405-11 | RES,CHIP | 47 | 2% | 1/8W |
| R916 | 1-216-150-00 | RES,CHIP | 10 | 2% | 1/8W |
| R917 | 1-208-437-11 | RES,CHIP | 1K | 2% | 1/10W |
| R918 | 1-208-437-11 | RES,CHIP | 1K | 2% | 1/10W |
| R919 | 1-208-405-11 | RES,CHIP | 47 | 2% | 1/8W |
| R920 | 1-216-150-00 | RES,CHIP | 10 | 2% | 1/8W |
| R921 | 1-216-150-00 | RES,CHIP | 10 | 2% | 1/8W |
| R922 | 1-216-150-00 | RES,CHIP | 10 | 2% | 1/8W |
| R923 | 1-216-210-00 | RES,CHIP | 3.3K | 2% | 1/8W |
| R924 | 1-216-210-00 | RES,CHIP | 3.3K | 2% | 1/8W |
| R925 | 1-208-506-11 | RES,CHIP | 6.8K | 2% | 1/8W |
| R926 | 1-208-506-11 | RES,CHIP | 6.8K | 2% | 1/8W |
| R927 | 1-208-478-11 | RES,CHIP | 470 | 2% | 1/8W |
| R928 | 1-208-478-11 | RES,CHIP | 470 | 2% | 1/8W |
| | | < VARIABLE RESIST OR > | | | |
| RV104 | 1-241-761-11 | RES, ADJ, CARBON 1K (BIAS) | | | |
| RV204 | 1-241-761-11 | RES, ADJ, CARBON 1K (BIAS) | | | |
| RV304 | 1-241-761-11 | RES, ADJ, CARBON 1K (BIAS) | | | |
| RV404 | 1-241-761-11 | RES, ADJ, CARBON 1K (BIAS) | | | |
| RV801 | 1-225-647-11 | RES, VAR 20K/20K/20K/20K (FRONT LOW BOOST) | | | |
| RV802 | 1-225-648-11 | RES, VAR 5K/5K (FRONT LOW BOOST) | | | |
| RV803 | 1-225-648-11 | RES, VAR 5K/5K (FRONT LEVEL) | | | |
| RV804 | 1-225-647-11 | RES, VAR 20K/20K/20K/20K (REAR LOW BOOST) | | | |
| RV805 | 1-225-648-11 | RES, VAR 5K/5K (REAR LOW BOOST) | | | |
| RV806 | 1-225-648-11 | RES, VAR 5K/5K (REAR LEVEL) | | | |
| | | < SWITCH > | | | |
| S801 | 1-572-185-11 | SWITCH, SLIDE (FRONT FIL TER) | | | |
| S802 | 1-572-185-11 | SWITCH, SLIDE (REAR FIL TER) | | | |
| S901 | 1-771-387-11 | SWITCH, TOGGLE (HI-CURRENT/HI-VOL TAGE) | | | |
| | | < TRANSFORMER > | | | |
| T901 | 1-431-882-21 | TRANSFORMER, DC-DC CONVER TER | | | |
| | | < THERMISTOR > | | | |
| TH801 | 1-808-877-11 | THERMISTOR | | | |
| TH802 | 1-809-664-51 | THERMISTOR, POSITIVE | | | |
| TH803 | 1-809-664-51 | THERMISTOR, POSITIVE | | | |
| TH804 | 1-808-877-11 | THERMISTOR | | | |
| ********** | | | | | |
| * | 1-669-872-11 | HIGH LEVEL BOARD ********** | | | |
| | | < CAP ACIT OR > | | | |
| C117 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C118 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C119 | 1-164-222-11 | CERAMIC CHIP | 0.22uF | | 25V |
| C120 | 1-164-222-11 | CERAMIC CHIP | 0.22uF | | 25V |
| C217 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C218 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C219 | 1-164-222-11 | CERAMIC CHIP | 0.22uF | | 25V |
| C220 | 1-164-222-11 | CERAMIC CHIP | 0.22uF | | 25V |
| C317 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C318 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C319 | 1-164-222-11 | CERAMIC CHIP | 0.22uF | | 25V |
| C320 | 1-164-222-11 | CERAMIC CHIP | 0.22uF | | 25V |
| C417 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C418 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C419 | 1-164-222-11 | CERAMIC CHIP | 0.22uF | | 25V |

**HIGH LEVEL** **SP (FRONT)** **SP (REAR)**

| Ref. No. | Part No. | Description | | | | Remark |
|---|---|---|---|---|---|---|
| C420 | 1-164-222-11 | CERAMIC CHIP | 0.22uF | | 25V | |
| | | <CONNECTOR> | | | | |
| CN804 | 1-784-904-21 | CONNECTOR 4P (REAR HIGH LEVEL INPUT L/R) | | | | |
| CN805 | 1-784-904-31 | CONNECTOR 4P (FRONT HIGH LEVEL INPUT L/R) | | | | |
| CNJ802 | 1-784-916-11 | CONNECTOR, BOARD TO BOARD 9P | | | | |
| | | <RESISTOR> | | | | |
| R125 | 1-216-471-11 | METAL OXIDE | 27 | 5% | 3W | F |
| R225 | 1-216-471-11 | METAL OXIDE | 27 | 5% | 3W | F |
| R325 | 1-216-471-11 | METAL OXIDE | 27 | 5% | 3W | F |
| R425 | 1-216-471-11 | METAL OXIDE | 27 | 5% | 3W | F |
| ********** | | | | | | |
| * | 1-669-870-11 | S (FRONT) BOARD | | | | |
| | | ********** | | | | |
| | | <CAPACITOR> | | | | |
| C128 | 1-106-383-00 | MYLAR | 0.047uF | 5% | 200V | |
| C228 | 1-106-383-00 | MYLAR | 0.047uF | 5% | 200V | |
| | | <CONNECTOR> | | | | |
| CN802 | 1-694-425-11 | TERMINAL BOARD (4P) (FRONT SPEAKER OUT) | | | | |
| | | <RESISTOR> | | | | |
| R151 | 1-215-857-11 | METAL OXIDE | 10 | 5% | 1W | F |
| R251 | 1-215-857-11 | METAL OXIDE | 10 | 5% | 1W | F |
| ********** | | | | | | |
| * | 1-669-871-11 | S (REAR) BOARD | | | | |
| | | ********** | | | | |
| | | <CAPACITOR> | | | | |
| C328 | 1-106-383-00 | MYLAR | 0.047uF | 5% | 200V | |
| C428 | 1-106-383-00 | MYLAR | 0.047uF | 5% | 200V | |
| | | <CONNECTOR> | | | | |
| CN803 | 1-694-425-11 | TERMINAL BOARD (4P) (REAR SPEAKER OUT) | | | | |
| | | <RESISTOR> | | | | |
| R351 | 1-215-857-11 | METAL OXIDE | 10 | 5% | 1W | F |
| R451 | 1-215-857-11 | METAL OXIDE | 10 | 5% | 1W | F |
| ********** | | | | | | |
| | | MISCELLANEOUS | | | | |
| | | ********** | | | | |
| CN802 | 1-694-425-11 | TERMINAL BOARD (4P) (FRONT SPEAKER OUT) | | | | |
| CN803 | 1-694-425-11 | TERMINAL BOARD (4P) (REAR SPEAKER OUT) | | | | |
| CN818 | 1-537-479-11 | TERMINAL | | | | |
| CN819 | 1-537-479-11 | TERMINAL | | | | |
| D907 | 8-719-210-30 | DIODE F10P20F(R) | | | | |
| D908 | 8-719-210-30 | DIODE F10P20F(R) | | | | |
| D909 | 8-719-210-30 | DIODE F10P20F(R) | | | | |
| D910 | 8-719-210-30 | DIODE F10P20F(R) | | | | |
| F901 | 1-533-743-11 | FUSE (BLADE TYPE) (AUTO FUSE) (40A) | | | | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| FN801 | 1-763-107-11 | MOTOR, FAN | |
| Q109 | 8-729-038-52 | TRANSISTOR IRF540(H) | |
| Q110 | 8-729-038-01 | TRANSISTOR IRF9540(H) | |
| Q209 | 8-729-038-52 | TRANSISTOR IRF540(H) | |
| Q210 | 8-729-038-01 | TRANSISTOR IRF9540(H) | |
| Q309 | 8-729-038-52 | TRANSISTOR IRF540(H) | |
| Q310 | 8-729-038-01 | TRANSISTOR IRF9540(H) | |
| Q409 | 8-729-038-52 | TRANSISTOR IRF540(H) | |
| Q410 | 8-729-038-01 | TRANSISTOR IRF9540(H) | |
| Q904 | 8-729-030-72 | TRANSISTOR MT AJ50N05HD | |
| Q905 | 8-729-030-72 | TRANSISTOR MT AJ50N05HD | |
| Q906 | 8-729-030-72 | TRANSISTOR MT AJ50N05HD | |
| Q907 | 8-729-030-72 | TRANSISTOR MT AJ50N05HD | |
| TH802 | 1-809-664-51 | THERMISTOR, POSITIVE | |
| TH803 | 1-809-664-51 | THERMISTOR, POSITIVE | |
| ********** | | | |
| | | ACCESSORIES & PACKING MATERIALS | |
| | | ********** | |
| | 3-013-264-01 | COVER, 3P TERMINAL TABLE | |
| | 3-367-410-01 | SCREW (DIA. 5X15), TAPPING | |
| | 3-701-639-00 | BAG, POLYETHYLENE | |
| | 3-862-338-11 | MANUAL, INSTRUCTION (ENGLISH, FRENCH) (EXCEPT G) | |
| | 3-862-338-21 | MANUAL, INSTRUCTION (GERMAN, ITALIAN) (AEP ,UK,G,E) | |
| | 3-862-338-31 | MANUAL, INSTRUCTION (SPANISH, PORTUGUESE) (AEP ,UK,E) | |
| | 3-862-338-41 | MANUAL, INSTRUCTION (DUTCH, SWEDISH) (AEP ,UK,E) | |
| ********** | | | |
| | | ********** | |
| | | HARDWARE LIST | |
| | | ********** | |
| #1 | 7-685-544-14 | SCREW +BTP 3X5 TYPE2 N-S | |
| #2 | 7-685-546-19 | SCREW +BTP 3X8 TYPE2 N-S | |
| #3 | 7-685-797-09 | SCREW +PTT 2.6X16 (S) | |
| #4 | 7-685-646-79 | SCREW +P 3X8 TYPE2 N-S | |
| #5 | 3-912-431-11 | SCREW M 4X8 (P) | |
| #8 | 7-685-144-11 | SCREW +P 3X5 TYPE2 N-S | |
| #9 | 7-685-649-79 | SCREW +P 3X14 TYPE2 N-S | |
| #10 | 7-685-660-79 | SCREW +P 4X10 TYPE2 N-S | |
| #11 | 7-685-645-79 | SCREW +P 3X6 TYPE2 N-S | |
| #12 | 7-682-949-01 | SCREW +PSW 3X10 | |

# XM-754HX

SONY

# SERVICE MANUAL

*US Model*
*Canadian Model*
*AEP Model*
*UK Model*
*E Model*

# SUPPLEMENT-1

**File this supplement with the service manual.**

**Subject:**
**Red Color Panal Addition**

(ECN-CS804006)

The difference parts are described in this service manual supplement-1.
Please refer to XM-754HX service manual previously issued for the other information.

**• DIFFERENCE PARTS LIST**

| Page | Former | | | | New | | | |
|---|---|---|---|---|---|---|---|---|
| | Ref. No. | Part No. | Description | Remark | Ref. No. | Part No. | Description | Remark |
| 17 | *3 | 3-023-131-01 | PANEL, FRONT | | *3 | 3-023-131-01 | PANEL, FRONT (BLUE) | |
| | | | | | *3 | 3-023-131-11 | PANEL, FRONT (RED) | |
| | *5 | 3-023-801-01 | HEAT SINK | | *5 | 3-023-801-01 | HEAT SINK (BLUE) | |
| | | | | | *5 | 3-023-801-11 | HEAT SINK (RED) | |
| | *6 | 3-023-797-11 | PLATE, ORNAMENTAL | | *6 | 3-023-797-11 | PLATE, ORNAMENTAL (BLUE) .....(BLUE) | |
| | | | | | *6 | 3-023-797-31 | PLATE, ORNAMENTAL (CLEAR).....(RED) | |
| | *10 | 3-023-132-01 | PANEL, REAR | | *10 | 3-023-132-01 | PANEL, REAR (BLUE) | |
| | | | | | *10 | 3-023-132-11 | PANEL, REAR (RED) | |

NOTE:
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

9-925-796-81

**Sony Corporation**
**Personal & Mobile Communication Company**

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## REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper on the revised page allows you to jump to the next revised page.

| Ver. | Date | Description of Revision |
|---|---|---|
| 1.1 | 2001. 08 | The CORRECTION-1 is included into Ver 1.1 |
| 1.0 | 1998. 01 | New |
| | | |
| | | |
| | |